

RESULTS OF THE YALE PERUVIAN EXPEDITION OF 1911.
LEPIDOPTERA.

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A large part of the species of Lepidoptera could not be found in the collection of the United States National Museum at Washington, and I accordingly enlisted the aid of Mr. William Schaus, who very kindly compared the specimens in London. He submitted certain specimens to various specialists, to all of whom my thanks are cordially extended. The collection contains 242 species, here listed.

Family PAPILIONIDÆ.

PAPILIO PÆON Boisduval.

Cotahuasi, 9,000 feet, October 11, 1911.

Machupichu, 1912.

PAPILIO MADYES MONTEBANUS, new subspecies.

Submarginal spots of hind wing above slender, incised, nearly divided, white in the male, yellow in the female, white edge of the wings very broad in the incisures between the veins. Otherwise as in *P. m. chlorodamas* Guenée.

Cotypes.—Male and female, Cat. No. 15599, U.S.N.M., San Miguel, 6,000 feet, September 1, 1911.

Family PIERIDÆ.

ACMEPTERON NEMESIS Latreille.

Paltaybamba, 5,000 feet, August 28, 1911.

ENANTIA TERESA Hewitson.

Pampaconas River, August, 1911.

CATASTICTA MODESTA Lucas.

San Miguel, 6,000 feet, September 1, 1911.

CATASTICTA MANCO Doubleday.

Tincochaca, 7,000 feet, August 9, 1911.

Mr. Schaus notes that the specimens are "very near *manco*." From the *manco* in the collection they differ in the whiter ground color and reduced submarginal dark band of hind wings, but the differences are not marked.

CATASTICTA WATKINSI Lathy and Rosenberg.

San Miguel, 5,000 feet, September 1, 1911.

Mr. Rosenberg kindly compared the specimen with a cotype and notes "agrees in markings with that species, but is very much paler. Probably a local race of that species."

CATASTICTA PRIONERIA Hopffer.

Pampaconas River, August, 1911.

CATASTICTA STRAMINEA Butler.

Pampaconas River, August, 1911.

CATASTICTA CORCYRA Felder.

Pampaconas River, August, 1911.

Determined by Mr. Schaus. This species has departed widely from the characteristic appearance of *Catasticta*.

HESPEROCHARIS CATOGRAMMA Kollar.

Huadquina, 5,000 feet, August 1, 1911.

TATOCHILA MACRODICE Staudinger.

Cotahuasi, 9,000 feet, October, 1911.

Chuquibamba, 10,000 feet, October, 1911.

TATOCHILA THEODICE Boisduval.

Cantas, 2,000 feet, November, 1911.

Cotahuasi, 9,000 feet, October, 1911.

Chuquibamba, 10,000 feet, October, 1911.

Coropuna, 14,500 feet, October, 1911.

The borders of the veins of the hind wings below are gray, not black as usual.

PIERIS ELODIA Boisduval.

Huadquina, 5,000 feet, August 1, 1911.

San Miguel, 6,000 feet, September 10, 1911.

PIERIS TOVARIA Filder.

Pampaconas River, August, 1911.

PIERIS ELEONE Doubleday.

Huadquina, 5,000 feet, July 26, 1911.

San Miguel, 6,000 feet, September 1, 1911.

PHULIA ALTIVOLANS, new species.

Male white, a black patch at end of cell, bar along costa and veins at apex black. Female yellowish, the markings more extensive; a submarginal band on fore wing; hind wing with the veins, a row of submarginal dots and streak in cell of dark color. Beneath with the pattern of *illimani* Weymer, but more diffused, no white showing and without the terminal red line. It is close to *nympha* Staudinger¹ from the high mountains of Bolivia, but the wings are less heavily marked with black above and the shades on veins and below are very pale gray.

¹ Iris, vol. 7, 1894, p. 46.

Cotypes.—Three males, two females, Cat. No. 15600, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911; Coropuna, 14,500 feet, October, 1911.

PHULIA NANNOPHYES, new species.

White; fore wing with a black patch at the end of the cell, detached from costa, short subapical stripe from costa and marginal spots to vein 3. Hind wing with minute central dot. Beneath, hind wing pale yellow, veins broadly faintly lined in brown; a black streak in humeral angle, in cell, and a double one in submedian area; a row of five square spots in submarginal row, continued by the short submedian streaks. Expanse, 19–21 mm.

Cotypes.—Two males, Cat. No. 15601, U.S.N.M., Coropuna, 14,500 feet, October, 1911.

ANDINA COROPUNÆ, new species.

Wings white; fore wing with costa and narrow wavy outer border black; a group of diffuse spots before apex above vein 5; a small spot on discal cross-vein. Beneath, tip of fore wing and all of hind wing purplish gray, the hind wing darker irrorate toward base, with very faint traces of outer dark spots. Expanse, 37 mm.

Type.—Cat. No. 15602, U.S.N.M., Coropuna, 16,000 to 17,000 feet, October, 1911.

Smaller than *A. huanaco* Staudinger, with much less of black on fore wing above, the hind wing purplish tinted, without spots and with a very strong humeral angle, more so than in *huanaco*.

COLIAS EUXANTHE Felder.

Tincochaca, 7,000 feet, August 9, 1911.

Urubamba, 9,500 feet, July 16, 1911.

Cuzco, 11,500 feet, July 10, 1911.

Coropuna, 14,500 feet, October, 1911.

COLIAS LESBIA Fabricius.

Cotahuasi, 9,000 feet, October, 1911.

Urubamba, 9,500 feet, July 16, 1911.

Cuzco, 11,500 feet, July 4, 1911.

All albino females, no males of this species in the collection.

TERIOCOLIAS PACIS Röber.

Ollantaytambo, 9,000 feet, July 21, 1911.

Urubamba, 9,500 feet, July 11, 1911.

Chuquibamba, 10,000 feet, October, 1911.

TERIOCOLIAS ATERIAS Hewitson.

Urubamba, 9,500 feet, July 17, 1911.

TERIAS MUSA Fabricius.

San Miguel, 6,000 feet, September 1, 1911.

TERIAS PLATAEA Felder.

Huadquina, 5,000 feet, August 1, 1911.

San Miguel, 6,000 feet, July 24, 1911.

TERIAS ÆQUATORIALIS Felder.

Huadquina, 5,000 feet, July 26, 1911.

Paltaybamba, 5,000 feet, August 25 and 28, 1911.

San Miguel, 6,000 feet, July 24 and September 1, 1911.

Torontoy, 7,000 feet, July 23, 1911.

TERIAS TENELLA Boisduval.

Urubamba, 9,500 feet, July 16, 1911.

TERIAS PHIALE Cramer.

Paltaybamba, 5,000 feet, August 28, 1911.

TERIAS, species.

Huadquina, 5,000 feet, August 1, 1911.

One female, which Mr. Schaus labels "Not in British Museum: nor collection of Godman." The species is probably undescribed, but it seems unwise to found a new name on the female alone.

STYX INFERNALIS Staudinger.

Pampaconas River, August, 1911.

Tincochaca, 7,000 feet, August 9, 1911.

Family DANAIDÆ.

DANAIS ERIPPUS Cramer.

Cantas, 2,000 feet, November, 1911.

CERATINIA CÆNO Doubleday and Hewitson.

Huadquina, 5,000 feet, July 20 and 26, 1911.

EPISCADA CANILLA Hewitson.

Lucma, 7,000 feet, August 25, 1911.

ITHOMIA AGNOSIA Druce.

Paltaybamba, 5,000 feet, August 28, 1911.

PTERONYMIA VEIA Hewitson.

Paltaybamba, 5,000 feet, August 28, 1911.

SCADA ORTYGIA Druce.

Huadquina, 5,000 feet, July 26, 1911.

San Miguel, 6,000 feet, July 24, 1911.

Lucma, 7,000 feet, August 25, 1911.

Family ARCÆIDÆ.

ACTINOTE GRISEATA Butler.

Pampaconas River, August, 1911.

ACTINOTE CALLIANIRA Hewitson.

Pampaconas River, August, 1911.

ACTINOTE NICYLLA Hopffer.

Paltaybamba, 5,000 feet, August 28, 1911.

ACTINOTE BINGHAMÆ, new species.

Nearest to *A. eresia leptoneura* Jordan. Body black; a sublateral orange-red stripe crossed by a fine black line; some yellow brown shading on collar. Fore wing black, tinged with brown terminally; the cell from near base to near end orange red, crossed by an oblique black line to origin of vein 2; a similar shade below cell not reaching

submedian, but more extended outwardly and crossed by vein 2, which is black; a subapical pale yellow fascia intersected by veins. Hind wing paler orange-red, the inner margin whitish yellow; a space at base, the veins, streaks on interspaces and termen black, the latter very narrowly black toward anal angle. Beneath, fore wing pale reddish to postmedial area; costa and terminal space olive yellow; veins black with similar streaks on interspaces from vein 2 to vein 8; a black median line across middle of cell and irregular black shading on discocellular; a postmedial broad black line, oblique from vein 11 to vein 3, a spot below 3 and a vertical shade from vein 2 to inner margin; subapical fascia faintly indicated. Hind wing below olive yellow, the veins and intervenal streaks black; a reddish shade at base of costa and below cell, followed by a macular black line; a fine postmedial black line, inbent and irregular; a broad terminal dull brown shade. Expanse, 47 mm.

Type.—Female, San Miguel, 5,000 feet, September 1, 1911.

Named in honor of Mrs. Alfreda Mitchell Bingham, of New Haven, Connecticut.

Family HELICONIIDÆ.

HELICONIUS TELESIPHE Hewitson.

Paltaybamba, 5,000 feet, August 28, 1911.

HELICONIUS MELPOMENE HYPERPLEA, new subspecies.

Black; fore wing with the red patch large and full, the edge rather irregular, filling out below roundedly to vein 1, which it broadly borders for some distance not squarely cut off above this vein as in most forms of melpomene. No basal marking. Hind wing below as in *melpomene*.

Cotypes.—Two specimens, No. 15606, U.S.N.M., Paltaybamba, 5,000 feet, August 6, 1911.

Family NYMPHALIDÆ.

Subfamily NYMPHALINÆ.

COLAENIS TELESIPHE Hewitson.

Paltaybamba, 5,000 feet, August 28, 1911.

AGRAULIS JUNO Felder.

Cotahuasi, 9,000 feet, October, 1911.

AGRAULIS GLYCERA Felder.

Cotahuasi, 9,000 feet, October, 1911.

AGRAULIS VANILLÆ Linnæus.

Ollantaytambo, 9,000 feet, July 20, 1911.

The specimens represent a variety, smaller and with somewhat modified markings.

PHYCIODES PEARCI Druce.

Pampaconas River, August, 1911.

Huadquina, 5,000 feet, July 26, 1911.

San Miguel, 6,000 feet, July 24, 1911.

Torontoy, 7,000 feet, July 23, 1911.

PHYCIODES ELIA Hewitson.

Pampaconas River, August, 1911.

Paltaybamba, 5,000 feet, August 28, 1911.

PHYCOIDES OMOSIS, new species.

Black, dusted with ocher scales; fore wing with a white patch across end of cell, more or less obsolete, and a more distinct spot above vein 3; a broken powdery subterminal line, looped in at the outer spot. Hind wing with three submarginal wavy ocher lines, the inner two less distinct. Beneath, fore wing with the base dull olive, disk black; the white bars more distinct than above; margin fulvous and brown with wavy brown submarginal line bent in at white bar and two rounded black spots above. Hind wing pale, with purplish and brown shades; basal area mottled, with a large brown patch in the cell and wavy shaded mesial line; outer row of four heart-shaped black spots outlined in purplish; submarginal line as on fore wing, preceded by purplish, tending to form lunules; margin yellow-brown.

Cotypes.—Seven specimens, Cat. No. 15604, U.S.N.M., Pampaconas River, August, 1911.

Mr. Schaus labeled a specimen "Between *nana* Druce, *nussia* Druce and a MSS. label of Staudinger in the Godman collection."

PHYCIODES BIRIVULA, new species.

Black above, dusted with yellow; spots of fore wing yellowish white; a narrow one in cell and oblique one at end, two minute subapical, two rounded submarginal, one above vein 4 and vein 2, the latter larger and further from the margin; submarginal line wavy, broken, obsolete above. Hind wing with two submarginal lines, wavy, the inner not reaching costa. Beneath, fore wing yellowish dusted at base, disk broadly black, spots repeated; margin marbled with brown, with submarginal pale line repeated. Hind wing pale lilacine at basal half, outer half strongly blotched with brown, wavy confused brown lines, the brown forming a quadrangle costal patch near middle and inclosing the outer row of six black spots, which form a dislocated row; a submarginal wavy, crescentic, pale band.

Type.—Cat. No. 15605, U.S.N.M., San Miguel, 6,000 feet, July 24, 1911.

Mr. Schaus labels it "Near *P. abazia* Stgr."

PHYCIODES TELTUSA Godart.

Pampaconas River, August, 1911.

ERESIA POLINA Hewitson.

Pampaconas River, August, 1911.

ANARTIA FATIMA Fabricius.

Panama Canal Zone, June 16, 1911.

PYRAMEIS RUBIA Staudinger.

Tincochaca, 7,000 feet, August 9, 1911.

PYRAMEIS CARYE Hübner.

San Miguel, 5,000 feet, September 1, 1911.

Cotahuasi, 9,000 feet, October, 1911.

Chuquibamba, 10,000 feet, October, 1911.

Cuzco, 11,500 feet, July 4, 1911.

JUNONIA LAVINIA Cramer.

Huadquina, 5,000 feet, July 31, 1911.

JUNONIA VESTINA Felder.

Cuzco, 11,500 feet, July 4, 1911.

EUREMA ZABULINA Godart.

Huadquina, 5,000 feet, July 30, 1911.

EUREMA KEFERSTEINI Doubleday and Hewitson.

Pampaconas River, August, 1911.

CALICORE LIDWINA Felder.

Paltaybamba, 5,000 feet, August 28, 1911.

CYBDELIS CECIDA Hewitson.

Pampaconas River, August, 1911.

Paltaybamba, 5,000 feet, August 28, 1911.

EUBACIS SALPENZA Felder.

Huadquina, 5,000 feet, July 26, 1911.

EUBAGIS THALASSINA Hewitson.

Panama, June 17, 1911.

TEMENIS LAOTHŒ Cramer.

Pampaconas River, August, 1911.

PERIDROMIA FERONIA Linnaeus.

Panama, June 12, 1911.

TIMETES CHIRON Fabricius.

Cuzco, 11,500 feet, July 10, 1911.

ADELPHA OBERTHURI Boisduval.

Pampaconas River, August, 1911.

ADELPHA ALALA Hewitson.

Pampaconas River, August, 1911.

ADELPHA SAUNDERSI Hewitson.

Pampaconas River, August, 1911.

Tincochaca, 7,000 feet, August 9, 1911.

ANAEA CAMBYSES Druce.

Paltaybamba, 5,000 feet, August 6, 1911

ANAEA TITAN Felder.

Pampaconas River, August, 1911.

Subfamily SATYRINÆ.

ORESSINOMA TYPHLA Doubleday and Hewitson.

Paltaybamba, 5,000 feet, August 6, 1911.

LYMANOPODA EUBAGIOIDES Butler.

San Miguel, 6,000 feet, July 24, 1911.

LYMANOPODA SHEFTELL, new species.

Fore wing white, blue-gray at base, costa reddish, then black, spreading over apex, cut off squarely along vein 4, broad marginal border to vein 2, narrow to tornus, containing a white spot beyond cell and row of four before margin, the lower dot minute and farther from the margin. Hind wing with black powdering along the edge and spot between veins 5 and 6. Beneath the apex of fore wing brown. Hind wing with veins brown, the wing with many brown strigæ and three bands, one from costa to origin of vein 2, second from apex to inner margin, with a branch to above tornus, third submarginal; five white, black-ringed ocelli in a curved row from apex along the branch of second line.

Cotypes.—Two specimens, Cat. No. 15615, U.S.N.M., San Miguel, 6,000 feet, September 1, 1911; Torontoy, 7,000 feet, July 23, 1911.

Named in honor of Mr. Herbert Sheftel of New York.

LYMANOPODA ACRAEIDA Butler.

Pampaconas River, August, 1911.

Tiocochoaca, 7,000 feet, August 9, 1911.

LYMANOPODA LANASSA Felder.

Pampaconas River, August, 1911.

San Miguel, 6,000 feet, July 24, 1911.

LYMANOPODA HARKNESSI, new species.

Brown-black, with red-brown reflections, no markings above. Beneath, fore wing with two parallel brown lines near the margin, wavy, containing a yellow dot above and small ocellus below; hind wing slightly purplish variegated; a curved brown inner band; two submarginal lines as on fore wing with two yellow dots either side of vein 2; marginal half paler, especially broadly about tornus.

Cotypes.—Three specimens, Cat. No. 15616, U.S.N.M., Pampaconas River, August, 1911; San Miguel, 6,000 feet, July 24, 1911.

Named in honor of Mr. Edward S. Harkness of New York.

LYMANOPODA KEITHI, new species.

Brown above, fore wing blackish in the cell; hind wing with two small red-ringed ocelli before anal angle and vein 2. Below, fore wing with two distant lines, the outer crenulate and near the margin. Hind wing with a broad straight white band beyond the cell, yellow tinged toward costa; beyond, bright brown; four black ocelli with white specks in centers, one large between veins 5 and 6, specks only between 4-5 and 3-4, large between 2-3, two before vein 2, the inner minute; a coarsely waved submarginal brown line.

Cotypes.—Three specimens, Cat. No. 15617, U.S.N.M., Pampaconas River, August, 1911.

Mr. Schaus labeled this as in the British Museum without name.

Named in honor of Mr. Minor C. Keith of New York.

LYMANOPODA FERRUGINOSA Butler.

Pampaconas River, August, 1911.

LYMANOPODA OBSOLETA Doubleday and Hewitson.

Pampaconas River, August, 1911.

Paltaybamba, 5,000 feet, August 28, 1911.

LYMANOPODA APULEIA Hopffer.

Pampaconas River, August, 1911.

PEDALIODES PANYASIS Hewitson.

Tincochaca, 7,000 feet, August 24, 1911.

PEDALIODES PORIMA Hewitson.

Paltaybamba, 5,000 feet, August 6, 1911.

San Miguel, 6,000 feet, July 24, 1911.

STEROMA BEGA Doubleday and Hewitson.

Tincochaca, 7,000 feet, August 10, 1911.

STEROMA UMBRACINA Butler.

Tincochaca, 7,000 feet, August 9, 1911.

EUPTYCHIA CAMERTA Cramer.

Panama, Canal Zone, June 16, 1911.

The small form with row of six large ocelli on hind wing below.

Paltaybamba, 5,000 feet, August 6, 1911.

Huadquina, 5,000 feet, July 30, 1911.

The large form with the ocelli on the wings below very minute, the surface dusted with yellow scales.

EUPTYCHIA HOTCHKISSI, new species.

Wings gray brown with two black wavy submarginal lines, no ocelli above. Below, fore wing with two straight parallel distinct median lines, two submarginal lines; a small ocellus before them above vein 5. Hind wing washed with bluish white to beyond cell; two parallel straight median brown lines; four large ocelli, the first and fourth with black centers and double white pupils, the two central ones grayish; two submarginal lines.

Type.—Cat. No. 15618, U.S.N.M., Pampaconas River, August, 1911.

Named in honor of Mr. H. Stuart Hotchkiss of New Haven, Connecticut.

EUPTYCHIA LEGUIA-LIMAI, new species.

Above, brown; a coarsely waved faint submarginal line. Below, wings finely strigose; fore wing with outer line shaded with lighter brown; space beyond pale, more lilaceous; a wavy submarginal line; margin beyond it browner. Hind wing with two slightly wavy median lines; space between filled with darker brown, with brighter edges; margin as on fore wing; minute points representing ocelli.

Cotypes.—Seven specimens, Cat. No. 15619, U.S.N.M., Huadquina, 5,000 feet, July 26, 1911; Paltaybamba, 5,000 feet, August 28, 1911; San Miguel, 6,000 feet, July 24, 1911.

Named in honor of Hon. A. B. Leguia-Lima, a former president of Peru.

LASIOPHILA ZAPATOZA Westwood.

San Miguel, 6,000 feet, September 1, 1911.

OXEOSCHISTUS PRONAX Hewitson.

Huadquina, 5,000 feet, July 26, 1911.

TAYGETIS CELIA Cramer.

Pampaconas River, August, 1911.

MYGONA PROCHYTA Hewitson.

San Miguel, 5,000 feet, September, 1911.

The specimen is of the form *chyprota* Grosse-Smith.

PRONOPHILA PORSENNA Hewitson.

Pampaconas River, August, 1911.

Subfamily **BRASSOLINÆ**.

CALIGO ILIONEUS Cramer.

Huadquina, 5,000 feet, July 26, 1911.

Family **RIODINIDÆ**.

ANCYLURIS MELIBŒUS Fabricius.

Pampaconas River, August, 1911.

CHARIS GYNÆA Godart.

Panama Canal Zone, June 17, 1911.

Family **LYCÆNIDÆ**.

THECLA CANDAR H. H. Druce.

Tineochaca, 7,000 feet, August 9, 1911.

THECLA OCRISIA Hewitson.

Pampaconas River, August, 1911.

Huadquina, 5,000 feet, August, 1911.

The specimens are of the form *peruviana* Eschscholtz.

THECLA TYLERI, new species.

Near *yojoa* Reakirt. Beneath gray, less reddish, the lines of both wings straighter, not broken nor scalloped, rounded below, not angled, without red bordering scales; marginal ocellus small, without red; no red at anal angle.

Type.—Cat. No. 15620, U.S.N.M., Coropuna, 14,500 feet, October, 1911.

Named in honor of Mr. Victor Tyler, of New Haven, Connecticut.

THECLA BENNETTI, new species.

Bright metallic blue above; fore wing with a darker, less metallic patch on the disk; outer margin black, broadest at apex and gradually narrowing to tornus. Hind wing black on costa and apex, outer margin very narrowly so; long tail at end of vein 2, shorter one at 3, both white tipped. Beneath, blackish gray with ocher tint; fore wing with the median line straight, white, black-edged within; submarginal line fine, slightly dislocated on the veins. Hind wing with the median line colored as on fore wing, irregular, produced

outward before and after vein 2; submarginal line as on fore wing; two red ocelli between the tails and at anal angle, black centered and black edged within.

Type.—Cat. No. 15621, U.S.N.M., Pampaconas River, August, 1911.

Named in honor of Mr. Thomas G. Bennett, of New Haven, Connecticut.

THECLA BROCELA, new species.

Gray brown above, costa narrowly light red, broader at base; a black discal patch. Hind wing a little tinged with bright blue; a small red spot at anal angle. Single tail at vein 2 long, white-tipped. Below light ashen; a median brick-red band across both wings, submaculate on hind wings, narrowly white without; a small red spot above tail and at anal angle, the latter with black spot also. A faint double whitish submarginal maculate line.

Type.—Cat. No. 15622, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911.

THECLA ULIA, new species.

Wing-shape as in *T. gamma* H. H. Druce. Gray, with light bluish tint, especially along inner half of hind wing; fringes and base of costa light brownish red. Below ocher brown; fore wing with inner area pale; two irregular broad brown bands across cell; a faint submarginal row of brown spots. Hind wing with two bands from costa across cell, fainter than on fore wing; a submarginal faint line, beyond which the ground color is lighter.

Type.—Cat. No. 15623, U.S.N.M., Cantas, 2,000 feet, November, 1911.

THECLA MUELA, new species.

Wing-shape of *T. bolima* Schaus, but the hind wing without the projection at vein 2, the anal angle strongly produced. Gray-brown; basal area of both wings, except toward costa, washed with light blue. Below, fore wing dark at base, shading to pale, outer line pale, straight, preceded by a dark olive gray shade stopping at vein 2; a marginal olive gray border, the subterminal space olive yellowish. Hind wing dark olive brown on basal half, limited by a line incised in cell; outer half olive yellowish, contrasted, crossed by a faint macular line and shaded border.

Cotypes.—Two specimens, Cat. No. 15624, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911.

THECLA EXCISICOSTA, new species.

Blackish brown, the fore wing in some specimens reddish except costa and margin; fringe white checkered. Hind wing with the costa shallowly excised, apex roundedly prominent; three black spots, small one at anal angle, two following the short tail at vein 2; a row of faint whitish submarginal crescents. Below, fore wing orange,

costa gray; outer margin gray with two rows of checkered spots, the inner square, white-edged without, the outer row narrow, fainter toward costa. Hind wing soft gray, with shaded white submarginal streak; quadrate checkered spots in a faint row near base, a distinct row across middle, the three below vein 3 alternately dislocated toward base and outwardly; a spot at tornus and two beyond the tail, these gold centered.

Cotypes.—Six specimens, Cat. No. 15625, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911; Chuquibamba, 10,000 feet, October, 1911.

LYCÆNA CALLANGA Staudinger.

San Miguel, 6,000 feet, July 24, 1911.

Urubamba, 9,500 feet, July 15, 1911.

Mr. Schaus notes this as possibly a manuscript name. The males are violet above, blue toward base; female with submarginal yellowish crescents on hind wing, followed by violaceous rounded spots with dark centers. Beneath, fore wing reddish; two white ringlets in cell, one below; an outer row of same; termen gray with double lunular white line. Hind wing gray; two rows of white rings and one at end of cell; submarginal white band followed by faint crescents with two metallic specks near tornus.

LYCÆNA MARINA Reakirt.

San Miguel, 6,000 feet, July 24, 1911.

LYCÆNA ZACHACINA Butler and Druce.

Cantas, 2,000 feet, November, 1911.

Urubamba, 9,500 feet, July 16, 1911.

Coropuna, 14,500 feet, October, 1911.

LYCÆNA ALTICOLA Godman and Salvin.

Cantas, 2,000 feet, November, 1911.

Coropuna, 14,500 feet, October, 1911.

LYCÆNA KOA Druce.¹

Pampaconas River, August, 1911.

Cotahuasi, 9,000 feet, October, 1911.

Urubamba, 9,500 feet, July 16, 1911.

Chuquibamba, 10,000 feet, October, 1911.

Coropuna, 14,500 feet, October, 1911.

The specimens taken in July and August are dark above, blue over blackish. Those taken in October are bright metallic silvery blue with narrow black margin to both wings. Evidently these are seasonal forms.

Family HESPERIIDÆ.

EUDAMUS EURYCLES Hübner.

Panama Canal Zone, June 16, 1911.

EUDAMUS SIMPLICIUS Stoll.

Huadquina, 5,000 feet, August, 1911.

¹ Or *vapa* Staudinger. I have the reference to neither, so can not say which name has precedence.

EUDAMUS CATILLUS Cramer.

Huadquina, 5,000 feet, July 24, 1911.

EUDAMUS DORANTES Stoll.

Huadquina, 5,000 feet, August, 1911.

BUTLERIA CUPARIA Mabille.

Pampaconas River, August, 1911.

BUTLERIA DIMIDIATUS Felder.

Pampaconas River, August, 1911.

BUTLERIA AGATHODES Felder.

Tincochaca, 7,000 feet, August 9, 1911.

HYLEPHILA LIMA Plötz.

Tincochaca, 7,000 feet, August 9, 1911.

Urubamba, 9,500 feet, July 16, 1911.

Cuzco, 11,500 feet, July 4, 1911.

HYLEPHILA ISONIRA, new species.

Similar to *phylaeus* Drury; male with the black terminal marks broader and more nearly forming a dentate band, often completely so; female only a little blacker than the male, some specimens not at all so, the marks not confluent over the surface as in female *phylaeus*. Beneath light yellowish; fore wing as in *phylaeus* but lighter; hind wing light yellowish, grayish tinged, a mesial pale band edged with dull red scales, sharply bent, its lower segment straighter than in *phylaeus*, not dotted with black.

Cotypes.—15 specimens, Cat. No. 15627, U.S.N.M., Ollantaytambo, 9,000 feet, October, 1911; Urubamba, 9,500 feet, July 18, 1911; Chuquibamba, 10,000 feet, October, 1911; Cuzco, 11,500 feet, July 12, 1911; Coropuna, 14,500 feet, October, 1911. Three specimens from Cantas, 2,000 feet, November, 1911, have the marginal markings more pointed and smaller.

ARGOPTERON CYPSELUS Felder.

Pampaconas River, August, 1911.

San Miguel, 6,000 feet, July 24, 1911.

ARGOPTERON XICCA, new species.

Black above; inner area of hind wing broadly covered with long greenish hairs. Below, fore wing with base of costa and apex gray-brown, disk broadly black. Hind wing all gray-brown except a black streak on submedian fold, widening to a patch at tornus.

Type.—Cat. No. 15628, U.S.N.M., Vilcabamba, 10,000 feet, August 23, 1911.

ATRYTONE MELLA Godman and Salvin.

Cuzco, 11,500 feet, July 4, 1911.

Mr. Schaus labels this as possibly the female of *mella*, which is known only by males.

LERODEA GRACIA, new species.

Blackish brown, fringes white; fore wing grayish at base, with constricted spot in end of cell, three subapical and row of four below,

the upper two of these quadrate, hyaline white, the third and fourth dead white, the third small. Hind wing with yellowish shading over the disk nearly forming spots beyond the cell. Below, fore wing black at base, spots repeated, apex broadly light powdery gray. Hind wing all powdery gray with a long black ray through cell, traces of outer row of small white spots.

Cotypes.—Four specimens, Cat. No. 15629, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911; Coropuna, 14,500 feet, October, 1911.

LEREMA MIQUA, new species.

Close to *L. bipunctata* Mabilie (*lockius* Plötz), but wings beneath without the strigæ; hind wing with two brown bands, the inner bent at right angles to costa, the outer strongly curved. In *bipunctata* they run parallel and obliquely to costa.

Type.—Cat. No. 15630, U.S.N.M., San Miguel, 6,000 feet, July 24, 1911.

THYMELICUS ATHEMON Hübner.

Cuzco, 11,500 feet, July 4, 1911.

COBALUS CANNÆ Herrich-Schaeffer.

Urubamba, 9,500 feet, July 16, 1911.

HELIOPETES OMRINA Butler.

Huadquina, 5,000 feet, July 26, 1911.

PERICHARES CORYDON Fabricius.

San Miguel, 6,000 feet, July 29, 1911.

TELEGONUS CENTRITES Hewitson.

Pampaconas River, August, 1911.

CYCLYRIUS ALTICOLA Godman and Salvin.

Cantas, 2,000 feet, November, 1911.

Cotahuasi, 9,000 feet, October, 1911.

Chuquibamba, 10,000 feet, October, 1911.

Coropuna, 14,500 feet, October, 1911.

STAPHYLUS SCORAMUS Schaus.

San Miguel, 6,000 feet, July 24, 1911.

THANAOS FUNERALIS Scudder and Burgess.

Coropuna, 14,500 feet, October, 1911.

HESPERIA SYRICHTUS Fabricius.

Huadquina, 5,000 feet, July 24, 1911.

Urubamba, 9,500 feet, July 16, 1911.

HESPERIA NOTATA Blanchard.

Coropuna, 14,500 feet, October, 1911.

HESPERIA ARCHIA, new species.

Brown; fringes checkered brown, yellowish white; base of fore wing and submarginal area with yellowish scales; incised quadrate spot at end of cell with dash above; spot at base of vein 2 and on vein 1 at middle third; outer row of spots, three subapical, two beyond, one below above vein 3, one farther in above vein 2; two

in submarginal space a little farther out. Hind wing with yellowish bar at end of cell and pale suffusion beyond it; submarginal row of suffused spots. Below, fore wing whitish with ocher tint at base, blackish beyond; spots repeated; termen washed with pale. Hind wing ocherous white, dusted with dark atoms; blackish rounded quadrate, powdery spots, one in cell, row of three centrally, outer row of six, blurred and forming a band excurved centrally.

Cotypes.—Four specimens, Cat. No. 15631, U.S.N.M., Cantas, 2,000 feet, November, 1911; Cotahuasi, 9,000 feet, October, 1911.

Allied to *H. emma* Staudinger.

Family SPHINGIDÆ.

SESIA TITAN Cramer.

Huadquina, 5,000 feet, July 29, 1911.

SESIA FADUS Cramer.

Northwest coast of South America, on steamer, June 21, 1911.

Family SATURNIIDÆ.

SATURNIODES ORIOS, new species.

Dark gray; wings irrorated with dark ocher scales; inner line of fore wing irregularly dentate, white, narrowly edged with black without, with black lines along veins 1 and 2 to outer line; discal ocellus hyaline, black ringed, then narrowly with dark ocher; outer line waved, white, edged black on both sides, expanding over apex where is a short partly black, partly deep crimson patch; a white band following outer line, then red, black, and ocher scales; margin very narrowly dark clay-brown. Hind wing dull and little marked on costa; mesial line white to back of ocellus, black edged; ocellus with small hyaline center, its ocher rim broad; outer line as on fore wing, its outer border becoming crimson at apex, the following white area mixed with crimson scales; margin as on fore wing. Beneath, gray, with yellow scales only marginally; a mesial blackish straight band on both wings, with yellow powdering. Hind wing without mesial line, the line being toward base, black, wavy, white-bordered. No submarginal white on either wing. Expanse, 115 mm.

Type.—Male, Cat. No. 15632, U.S.N.M., Cuzco, 11,500 feet, November, 1910.

Jordan founded the genus *Saturniodes*¹ on *Saturnia medea* Maassen.² He describes three subspecies of *medea*. Druce described *Saturnia ockendeni*,³ which is evidently a *Saturniodes*. The present form is apparently nearer to *ockendeni* than to *medea*; it does not appear to agree with any of the descriptions. The forms of *Saturniodes* all

¹ Novitates Zool., vol. 18, 1911, p. 132.

² Stübel's Reise durch Col., Ecuad., Peru, etc., 1890, p. 133, pl. 5, fig. 7.

³ Ann. Mag. Nat. Hist. (7), vol. 17, 1906, p. 411.

inhabit the higher altitudes of the Andes, but I have not sufficient material to discuss their relations to each other.

OXYTENIS LAVERNA Druce.

Pampaconas River, August, 1911.

Family SYNTOMIDÆ.

COSMOSOMA AUGÉ Linnæus.

Santa Ana, 3,000 feet, August 4, 1911.

Family LITHOSIIDÆ.

ARDONISSA ADSCITINA Dognin.

Cuzco, 11,500 feet, July 9, 1911.

Family ARCTIIDÆ.

VIRBIA ELISCA, new species.

Fore wing grayish black; hind wing dull black with large orange patch on costa on outer half except apex, running down almost to termen below vein 1. Beneath, hind wing as above; fore wing with a large orange patch from close to inner margin from end of cell to near base. Expanse, 25 mm.

Type.—Cat. No. 15633, U.S.N.M., Huadquina, 5,000 feet, July 24, 1911.

Allied to *V. fluminea* Schaus, but without red on fore coxæ.

VIRBIA CATAMA, new species. ●

Fore wing brownish black. Hind wing orange, with narrow outer black border, widened a little at apex and submedian; a little black at base of costa. Fore wing below with the disk broadly orange; costa and base narrowly and outer margin broadly grayish black. Abdomen and legs black. Expanse, 32 mm.

Type.—Female, Cat. No. 15634, U.S.N.M., Huadquina, 5,000 feet, July 24, 1911.

Near *V. lehmanni* Rothschild, but the abdomen entirely black.

HEMIHYALEA MELAS Dognin.

Cuzco, 11,500 feet, July, 1911.

ECPANTHERIA PERUVIENSIS Hampson,

Santa Ana, 3,000 feet, August 5, 1911.

ALTIMÆNAS TAPINA, new genus and species.

Hind wing with vein 4 present; 6 and 7 from apex of cell; fore wing with veins 7 to 10 stalked, 6 from angle of cell; proboscis aborted; hind tibiæ without medial spurs; fore tibiæ without claw; eyes not hairy; vestiture of head and thorax of rough woolly hairs; eyes small, sunken in the vestiture.

Thorax with long blackish hairs. Fore wing densely powdered, blackish on pale ochereous, leaving patches in cell, on either side of incised black discal spot and an outer band, curved over cell; a terminal row of diffuse black spots; fringe pale. Hind wing pale

ocherous whitish. Below, ocherous whitish; fore wing with dark shade along costa and patch at end of cell. Expanse, 28 mm.

Type.—Male, Cat. No. 15635, U.S.N.M., Coropuna, 14,500 feet, October, 1911.

UTETHEISA ORNATRIX Linnæus.

Coropuna, 14,500 feet, October, 1911.

Family NOCTUIDÆ.

Subfamily AGROTINÆ.

MESEMBREUXOA FASICOLA, new species.

Fore wing dull rosy ocherous subcostally to reniform; outer line indicated, curved, dentate; a dark gray rounded patch on costa subapically; subterminal space of lighter color, with dashes on discal venules; termen gray, cut by pale rays at veins 2 and 3; orbicular and reniform pale, joined by a broad black bar that incloses orbicular except above; area below median vein light grayish. Hind wing semihyaline white, costa gray. Expanse, 38 mm.

Type.—Male, Cat. No. 15636, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911.

POROSAGROTIS PROPRIENS, new species.

Ground color clayey ocherous suffused with grayish; orbicular large, elongate, reniform full, pale ringed, blackish filled, preceded and separated by black in the cell and followed by a black dash; claviform a large confused gray area surrounded by black and joined to outer line by a dash; a claviform mark below vein 1; inner line obscure; outer minutely crenulate, pale; termen with cuneiform black dashes; preceded by pale scales, the palest on the wing; four oblique pale dashes on costa before apex. Hind wing translucent, gray tinged especially on veins; fringe whitish outwardly. Expanse, 30 mm.

Type.—Female, Cat. No. 15637, U.S.N.M., Chuquibamba, 10,000 feet, October, 1911.

FELTIA ANNEXA Treitschke.

Pampaconas River, August, 1911

FELTIA MALEFIDA Guenée.

Pampaconas River, August, 1911.

FELTIA CLERICA Butler.

Ollantaytambo, 9,000 feet, July 23, 1911.

METALEPSIS CERPHIPHILA, new species.

Thorax blackish haired over luteous. Fore wing pale luteous, the veins narrowly white; black streaks below subcosta in cell, shading below cell, the veins beyond it from 2 to 8, intensified on margin, and a broad streak above vein 1. Hind wing shaded with blackish, fringe pale. Expanse, 29 mm.

Type.—Male, Cat. No. 15638, U.S.N.M., Coropuna, 14,500 feet, October, 1911.

LYCOPHOTIA ALBIORBIS, new species.

Dark gray, mottled with black, powdered with brassy; lines whitish, black edged on both sides; subbasal half line distinct, of two arcs; inner slightly oblique, crenulate; orbicular large, round, white; reniform brassy powdered, black in lower segment; outer line ex-curved over cell; subterminal line pale, angular, narrow. Hind wing white, blackish on costa and narrow marginal line. Expanse, 37 mm.

Type.—Male, Cat. No. 15639, U.S.N.M., Vilcabamba, 10,000 feet, August 23, 1911.

Subfamily **HADENINÆ**.**ERIOPYGA OROBA** Druce.

Tincochaca, 7,000 feet, August 9, 1911.

Ollantaytambo, 9,000 feet, July, 1911.

HYSSIA ELÆOCHROA, new species.

Smooth yellowish olive gray; base and termen more yellowish powdered; lines slender, blackish; inner dentate on submedian; outer crenulate; or bicular and reniform blackish, solid, not strongly relieved; subterminal line obsolete. Hind wing blackish, whitish over cell, fringe whitish, interlined. Expanse, 35 mm.

Type.—Female, Cat. No. 15640, U.S.N.M., Cuzco, 11,500 feet, July 4, 1911.

CIRPHIS LATIUSCULA Herrich-Schaeffer.

Huadquina, 5,000 feet, July, 1911.

LASIONYCTA COMIFERA, new species.

Gray, with bronzy yellowish tint; lines powdery blackish, all forming geminate streaks on costa; four yellowish specks before apex; subbasal and inner lines geminate, powdery, broken, not strongly relieved; claviform a half circle; orbicular pale, black ringed; reniform stellate, of the ground color, with pale speck; specks in the five points, black edged; outer line geminate, segmented, pale filled; subterminal line a row of bright dots preceded by black; termen yellowish, narrowly. Hind wing whitish in cell, fuscous beyond; fringe pale. Expanse, 31 mm.

Type.—Cat. No. 15644, U.S.N.M., Cantas, 2,000 feet, November, 1911.

The eyes have long, sparse hairs instead of the usual dense ones, and are besides strongly lashed.

Subfamily **ACRONYCTINÆ**.**ARGYRACTIS PHRAORTES** Druce.

Pampaconas River, August, 1911.

PERIGEA APAMEOIDES Guenée.

Pampaconas River, August, 1911.

Huadquina, 5,000 feet, August 1, 1911.

PERIGEA VECORS Guenée.

Pampaconas River, August, 1911.

PERIGEA ALBOLABES Guenée.

Pampaconas River, August, 1911.

PERIGEA SELENOSA Guenée.

Pampaconas River, August, 1911.

DANTONA STILLATA Guenée.

Huadquina, 5,000 feet, July 24, 1911.

Subfamily ERASTRIINÆ.

COBUBATHA RILLA, new species.

Fore wing dark gray, irrorated with metallic purplish scales; a straight, median dark brown band, narrow on costal half; subterminal line dark, distinct, in-angled subcostally and strongly at veins 2-3. Hind wing orange, fringe blackish; costa narrowly gray. Expanse, 12 mm.

Type.—Cat. No. 15645, U.S.N.M., Cotahuasi, 9,000 feet, October, 1911.

Subfamily PLUSIINÆ.

PLUSIA OU Guenée.

Pampaconas River, August, 1911.

PLUSIA MONOXYLA, new species.

Violaceous gray, shaded with bronzy; markings as in *biloba*, the sign smaller and more oblique, the silvery marking at reniform absent. Expanse, 29 mm.

Type.—Female, Cat. No. 15646, U.S.N.M., Ollantaytambo, 9,000 feet, July 24, 1911.

Subfamily NOCTUINÆ.

GONITIS EDETRIX Guenée.

Pampaconas River, August, 1911.

ANOMIS SOPHISTES, new species.

Near *catagelus* Dyar, but with the costal fovea at base of fore wing forming no swelling above; anal tuft white; fore tibiæ not spotted with white on the sides; general color more reddish brown, dark shadings lighter, that at base of wing much restricted. Hind wing lighter fuscous. Expanse, 33 mm.

Cotypes.—Male and female, Cat. No. 15647, U.S.N.M., Pampaconas River, August, 1911.

PANGRAPTA REPUGNALIS Hübner.

Pampaconas River, August, 1911.

GABINA HOMICHOLODES Hübner.

Pampaconas River, August, 1911.

DONACLEA PERUVIENSIS Dognin.

Torontoy, 7,000 feet, July 23, 1911.

HERMESIA GEMINA Maassen.

Huadquina, 5,000 feet, August 1, 1911.

HYPOGRAMMA HEMIPLAGIA Felder.

Pampaconas River, August, 1911.

COENIPETA LOBULIGERA Guenée.

Pampaconas River, August, 1911.

BOLINA FASCIOLARIS Guenée.

Off east coast of Cuba, on steamer, June 13, 1911.

Subfamily HYPENINÆ.

LASCORIA PHORMISALIS Walker.

Pampaconas River, August, 1911.

BLEPTINA CONFUSALIS Guenée.

Pampaconas River, August, 1911.

HYPENA CLAXALIS Schaus.

Pampaconas River, August, 1911.

HYPENA LEBONIA Druce.

Pampaconas River, August, 1911.

Tincochaca, 7,000 feet, August 9, 1911.

HYPENA CHAKA Dognin.

Pampaconas River, August, 1911.

HYPENA LOLLIA Druce.

Pampaconas River, August, 1911.

Mr. Schaus labeled this as like *lollia* but larger.

HYPENA INDENTATA Dognin.

Huadquina, 5,000 feet, August, 1911.

Family NOTODONTIDÆ.

CRINODES STRIOLATA Schaus.

Pampaconas River, August, 1911.

HEMICERAS NIGRIGUTTA Schaus.

Pampaconas River, August, 1911.

HIPPIA ASTUTA Schaus.

Pampaconas River, August, 1911.

Family THYATRIDÆ.

THYATIRA STAPHYLA Dognin.

Lucma, 7,000 feet, August 25, 1911.

Family GEOMETRIDÆ.

SANGALOPSIS FUGAX Dognin.

San Miguel, 6,000 feet, July 24, 1911.

SANGALA PHILODAMEA Druce.

Paltaybamba, 5,000 feet, August 28, 1911.

NELO CORYRA Druce.

Paltaybamba, 5,000 feet, August 6, 1911.

HETERUSIA SINUOSA Felder.

Ollantaytambo, 9,000 feet, July 20, 1911.

HETERUSIA STOLTZMANNARIA Oberthur.

Torontoy, 7,000 feet, July 23, 1911.

HETERUSIA HUMERARIA Walker.

San Miguel, 6,000 feet, July 24, 1911.

HETERUSIA PACIFICA Thierry-Mieg.

Pampaconas River, August, 1911.

HETERUSIA EPHESTRIS Felder and Rogenhofer.

Huadquina, 5,000 feet, July 30, 1911.

ERATEINA CYNTHIA Doubleday.

Tincochaca, 7,000 feet, August 9, 1911.

EUDULE SOMBREATA Dognin.

Huadquina, 5,000 feet, July 24, 1911.

EUDULE MALEFIDA Warren.

Huadquina, 5,000 feet, July 24, 1911.

SPARGANIA NARANGILLA Dognin.

Pampaconas River, August, 1911.

San Miguel, 5,000 feet, September 1, 1911.

CYLOPODA ROXANA Druce.

Santa Ana, 3,000 feet, August 2, 1911.

EPIRRHOE DILTILLA, new species.

Bright yellow-green, irrorate with blackish; subbasal band broad, dark; inner space full of black atoms; inner and outer bands approximate, broad, dark, inbent in cell and submedian; a black discal mark; space between and outer space full of black dots and atoms; subterminal line fine, pale, crenulate, preceded by dark shading in patches; an oblique black line to apex; terminal black dots in groups of three. Hind wing greenish tinged, pale; outer crenulate greenish gray line followed by two other straighter ones; termen washed with greenish. Expanse, 30 mm.

Type.—Female, Cat. No. 15648, U.S.N.M., Vilcabamba, 10,000 feet, August 11, 1911.

EREBOCHLORA TIMA Thierry-Mieg.

Pampaconas River, August, 1911.

DARNA VULTURATA Warren.

Torontoy, 7,000 feet, July 10, 1911.

ANAPALTA ACERBATA Felder and Rogenhofer.

Pampaconas River, August, 1911.

COPHOCEROTIS CINEREA Warren.

Tincochaca, 7,000 feet, August 8, 1911.

EUCOSMIA AFFIRMATA Guenée.

Urubamba, 9,500 feet, July 16, 1911.

TRIPHOSA QUASIPLAGA, new species.

Similar to *T. uniplaga* Warren, the lines more distinct, crisply crenulate, the subterminal white scales not forming rounded patches, but lines or pointed dots; instead of the large spot between veins 3 and 4, a slender crescent.

Type.—Male, Cat. No. 15649, U.S.N.M., Tincochaca, 7,000 feet, August 9, 1911.

CALLIPIA PARRHASIATA Guenée.

Pampaconas River, August, 1911.

CALLIPIA ROSETTA Thierry-Mieg.

Torontoy, 7,000 feet, July 23, 1911.

SEMIOTHISA CARDINEA Druce.

Huadquina, 5,000 feet, July 24, 1911.

PERGAMA SPECIOSATA Guenée.

Pampaconas River, August, 1911.

NEPHELOLEUCA POLITIA Cramer.

Pampaconas River, August, 1911.

CERTIMA MIMA Thierry-Mieg.

Pampaconas River, August, 1911.

TRICHROMATOPODIA CALAVERA Dognin.

Pampaconas River, August, 1911.

OPISTHOXIA MELAE Druce.

Huadquina, 5,000 feet, July 24, 1911.

BYSSODES QUADRIFILATA Felder.

Pampaconas River, August, 1911.

SEMIOTHISA RADIATA Maassen.

Pampaconas River, August, 1911.

OXYDIA CROCALLINARIA Oberthur.

Pampaconas River, August, 1911.

AZELINA VARIARIA Walker.

Pampaconas River, August, 1911.

AZELINA MARCARIA Oberthur.

Pampaconas River, August, 1911.

AZELINA SPECTRATA Felder.

Pampaconas River, August, 1911.

PERO MACULICOSTA Warren.

Pampaconas River, August, 1911.

PERO CERIATA Walker.

Pampaconas River, August, 1911.

SABULODES AEGROTATA Guenée.

Pampaconas River, August, 1911.

SABULODES EXHONORATA Guenée.

Pampaconas River, August, 1911.

SABULODES TAMBILLARIA Oberthur.

Pampaconas River, August, 1911.

SABULODES GLAUCULARIA Snellen.

Pampaconas River, August, 1911.

SPODODES UNIFACTA, new species.

Dark reddish brown, finely irrorate, marks obscure; both wings with minute black discal dot and outer row of spots on the veins, the latter connected by a vague gray shade.

Type.—Female, Cat. No. 15651, U.S.N.M., Pampaconas River, August, 1911.

Mr. Paul Dognin has labeled the specimen "Seems close to *Spododes adumbrata* Warren, mais je n'en ai aucune d'aussi foncé."

EPIONE POLYDORA Thierry-Mieg.

Pampaconas River, August, 1911.

EPIONE THERMIDORA Thierry-Mieg.

Pampaconas River, August, 1911.

STENALCIDIA CONSTIPATA Dognin.

Pampaconas River, August, 1911.

ALCIS SALMONEARIA Oberthur.

Pampaconas River, August, 1911.

EUCTENECTROPIS COMMOTARIA Warren.

Huadquina, 5,000 feet, July 28, 1911.

CATORIA UNIPENNARIA Guenée.

Pampaconas River, August, 1911.

NIPTERIA FLEBILIS Warren.

San Miguel, 6,000 feet, July 24, 1911.

Mr. Schaus labels the specimen "Above equal to *Nipteria flebilis* Warren. Hind wings below paler."

Family DIOPTIDÆ.

POLYPOETES MARGINIFER, new species.

Black; fore wing semitranslucent black with broad longitudinal white streaks, one beyond cell, slightly cleft at end, the other below cell to outer three-fourths of submedian space. Hind wing white, with black border along costa and outer margin. Expanse, 22 mm.

Type.—Male, Cat. No. 15650, U.S.N.M., Tincochaca, 7,000 feet, August 10, 1911.

Family COSSIDÆ.

LANGSDORFIA MALINA Dognin.

San Miguel, 6,000 feet, July 24, 1911.

Family PYRALIDÆ.

NACOLEIA EBULEALIS Guenée.

Tincochaca, 7,000 feet, August 9, 1911.

TRITHYRIS LATIFASCIALIS Snellen.

Pampaconas River, August 1911.

STERICTA OBLIQUALIS Hampson.

Pampaconas River, August, 1911.

JOCARA SUIFERENS, new species.

Fore wing gray, tinged with green, especially on costal half; a large rounded white patch on inner margin between the lines; inner line as two black dashes in the edge of the white spot, obsolete above; small lunate black discal mark; outer line far out, dentate, excurved in middle third; a row of terminal short dashes. Hind wing whitish, gray on costa, narrowly so on outer margin; a wavy outer gray line, obsolete submedianly. Expanse, 29 mm.

Type.—Male, Cat. No. 15652, U.S.N.M., Pampaconas River, August, 1911.

Family TINEIDÆ.

TINEOLA (?) CULMINICOLA Staudinger.

Coropuna, 14,500 feet, October, 1911.

Mr. August Busck kindly examined the specimen.